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(54) PRODUCTION OF MATERIAL WITH HIGH CONTENT OF SILICA, CELLULOSE AND LIGNIN

(57)Abstract:

PROBLEM TO BE SOLVED: To simply produce the subject material increased in specific surface area by grinding and useful as an agricultural and horticultural material, a material for cements, a raw material, etc., for a high-purity silica from a raw material which has hitherto been mostly incinerated by carrying out a blasting or a cooking treatment of a woody material.

SOLUTION: The blasting or cooking treatment of a woody material such as chaff, rice straw, bagasse or sawdust is carried out using, e.g. 5-30 kg/cm² gauge pressure as a pressurizing pressure and the resultant material, as necessary, is then carbonized at, e.g. 300-800° C temperature for 10 min to 3 h in an apparatus, etc., for producing a leaf charcoal or ashed at, e.g. 550-900° C temperature. The blasting or cooking treatment is preferably conducted by adding an acid or a buffer solution so as to provide 10⁻⁶ to 10⁻¹ mol.dm⁻³ hydrogen ion concentration.

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